*********************** * N.

BMHA Newsletter

* BICYCLE MOBILE HAMS OF AMERICA

Volume II Number 2

* * 240 *

*

Apr 11 1991

NET...ON 20 BMHA

The BOHA HF net has been menting twice a month since Jan 6th and in that short time has become an important means of communication for bicycle-mobilers.

Nike Wickulaus, WPOW, the net control, will give a full report at the BMHA Forum at the Dayton RamVention on April 28. But in the meantime, consider these highlights: Top number of check-ins is 20 (up Feb 3). Average check-ing is 14. Two members actually checked in while bicyclemobile -- Elroy Shelley, VB9G(E in Kilwaukee and Elliott Kleiman, WA4YDK in Florida. (See Elliott's article elsewhere in this issue.

Prequency - 14.255 Khz ---- 2330 UTC Time

---- let and 3rd Sunday Day

of each month

Members, non-members, anybody who's interested in hicycle-mobiling - you're all welcome to check in and chat about anything that comes to mind.

ABOUT BMHA

Bicycle Mobile Name of America got its start what a "Stray" in the June '59 immor of QSI maked to "get in touch with hams who operate bicycle-mobile, or is any other human-powered conveyance", signed by Eartley Alley, EgoA.

25 hams responded, filled out goestlounsires, and received a summary of the collected info.

Then in April of '90 me had our own BMMA Forum at the Dayton Hamwention, We played to a packed house, averflowed the tiny room assigned to us, and added 54 names to our mailing list. (See elsewhere in this issue for details on our program at this year's Hamileation.)

Since January our mailing list has grown from 115 to 160, and paid membership has grown from 47 to 79.

EDITOR'S COLUMN

MY RICUSE

When I came out of the cat scan my doctor looked me straight in the eye and said: "I'm going to level with you. You're in big trouble. I've echeduled you for immediate emergency surgery."

So that's my excuse for not getting out this issue of the BMHA FewsLetter on time. On March 5th I was operated on for a triple assuries of the sorts. Five hours on the table.

This set me back 5 weeks before I could get back to the Model 100 and start work on this issue. At my age, 72, recuperation is a slow process.

Why just 4 years ago on this date 1 was well into my solo bike trek back to Rossachusetts for my high school's 50th reunion. Compare that with today, where I've finally worked my way up to 40 minutes a day on the stationary bike. (It'll be another week before they'll let me get out on a regular bike and just pedal around the block.)

Doctors may that my ansurisms got started way back 30 or 40 years ago, when I was a smoker. On the plus side, they say that my last 30 years of cycling strengthened my heart so that it was able to withstand the stress of the operation.

DUES NOV 310 A YEAR

The Board of Directors has decided that it's necessary to raise the BARA dues to \$10. This won't surprise those who've had a part in running a club. The recent increase in the postage rate, along with the cost of sending how-to-join info (we send a Newsletter) to all those who contact us, has pushed us too close to the red. The next issue will have a treasurer's report.

---- WAOA, Editor

A Bike-Mobile J-pole Antenna de Al Gritzmacher, AE27

A number of years ago, I was asked to boly provide 2melor VIII communications for a morathon run from Buffalo, dy to Misgara fails, distorio. The usual communications were meeded from checkpoints, water-atops, the start and finish lines and with the undical crown; but the organizers also had requested summine to keep brack of the first runner. The course was alosed to vehicles, although there were "official" vehicles allowed on the course, it was simpler to aveid putting another car on the course shile runners were

Initially, the idea was to have a Mam on a motorcycle wide the course, but no volunteers were found, at that time, the sice headset/wikes that are common now opene't available and to complicate matters, nince the ron fellowed the Misgara River along the Canadian side, the were some spots that seren't too solid on a handy-talkin with just a rubber duck.

I volunteered to do the job on my hicycle, but how that the one-well Heathkil hand-held I moved then would be mearly asologs if I relied solely on it's rubber dech antonne, for antenna with name gain was going to be needed as well as any height that could be achieved.

My crude, but effective answer was a bicycle-magnitud Justie antenna.

Most of you are probably faciliar with the J-pole. I've soon several versions in magazine articles over the years, but most pouple think of St as an antonna for fixedstation was.

I had been experimenting with a J-pule design that I had seen in the MRI, Antenna Manghook, we I realized it had some desirable characteristics for my hike-mobile operation:

- 3 It offered gain, nince it was a half-wave refialer, il would be about 166, better than a quarter-wave ersond-place and work better than the rubber "dumay 4465
- 3 It also required no ground plane to operate, a necessity as the hike.
-) life construction was simple, with a single 'pule' being both the most and radialing element, to it would be durable enough for the ride.

I built my 3-pole using some pieces of alusium buding I had rescond from a CB ground-plane antenna. I had a number of pieces, of two different sizes. The larger ones were originally half of the radials, and were roughly 1/2 figurity with tapered ends that held the smaller, about $I_{\rm p}$ ', pinces of taking for the ends of the radials. By coincidence, they also lit snugly inside the other, fulldiameter, and of another radial places I had three of them, 45 well as one broken one that I salvaged about two Fort from. They nade nice portably sast suctions.

The actual "I" portion of the actume was made out of the $^{3}/_{6}$ pieces belong. The sortical section was a little over 60" long. The short part of the "2" was 19 1/5" and was Seized to the long piece 57 1/4" from the top. Chimesions Inr 346 aftr.) The spacing between the two sections was about

1 1/5" (not critical) and was constructed with a short proce of the 3/g" tubing. The gods were filled so that they were concave and fit next to the other tuber. A hole was drilled in much of the pieces and a 2" fi-22 machine screw and not through the short spacer held them all together. I block of plexiglass was drilled and pract-fit over the ends of both halves of the "J." This secured the top of the short piece parallel with the main tubing,

Feeding the antenna was the problem though, Impulance matching is no problem, as the better Marsave of the antenna presents any impedance from nothing at the notine to infinity at the top. But an unbalanced feedling Empped directly across the feedpoints didn't present a very pool notch. I tried a fel balon nade from a quarter-wave section of come, and it worked such better, but only if it was secured at 4 90 degree angle from the antenna, not a very proclical configuration on the bigg!

The solution was suggested by a fraged after discussing the grobles over the gir, & "Darsoka" match was compact, Ilexible and massly constructed. If you're not tamiliar with it, the bazeote is simplicity itselfs a quarter-wave (from-space) slower slapped over the mutside of the curso with the bottom end joined to the enter shield on the cu-as, but the top left open. It presents a high impedance to any currents flowing door the outside of the co-as and effectively decouples the autenna from the outside of the co-ax, while allowing a balanced int match at the termination point. Just what I needed,

I built one camediately and it did the trick, The SAP was good and no langer affected by the angle of the Smedling. In fact, it could now be taped from the side of the I-pale with no till effects. The ends of the co-as were traced and secured to the aluminum tubing with small stainless here clamps, the type with the screw that tightens them. This allows the feedpoint to be arred up or from the enterns for precise matching.

I wish I had some slick pounting frick to pass on for putting the antenna on the biby, but it was strictly haling wire and string... I look the short tapered given ut the aluminum that I had and lastuned it to the year of the seatstays with more of the stainless hose classes, a little Sarper this time. Doe soul around the most and the other west through the list class and around the soutstay. This was repeated lower on the chainstay. These crossed clauss held the mast mear vertical at the rear of the bicycle. They didn't do much for the bite's finish though, despite weapong it with tape?

The anteena and one more section of mast were fitted on top of this rig and held in place with self-tapping set screws where the pieces telescoped together. Some electrical tage further secured things and held the co-as in place.

Fortunately, it all held together and other than having to be careful getting on and all the bibe, I had an mjoyable and successful ride along the aerathon course. While I only used the J-pole bite-actile the one time,

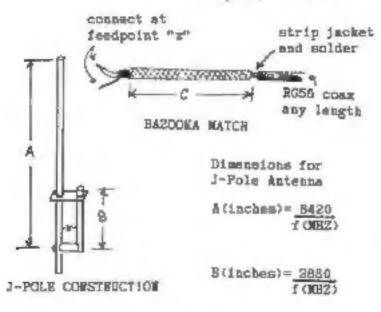
I have put the bibe-mobile to good use in many publicservice events since, and have always enjoyed combining two terrific hobbies in a way that honefits the public-

I built a couple norm of the J-poins, until 3 enhancied my stock of alumnum. They make a really handy, durable lightweight portable ambenne. I have one in my attice for use as a hack-up antenna and another that I keep for portable/energency use. The tapered and radial sections make a good portable must and can be guyed with light rope and tent states.

You can hatid a J-pole any meaber of ways. I have seen them made from copper tubing soldered tagather, 300 ohm twin-lead trianest back in form the "J", and cut out of the folded element from IV antennas. Most dimensions are straight out of the handbooks, no I won't reprint them here. The antenna is fairly broadbanded and is forgiving dimension-wise anyway.

By main piece of advice is combining the bazooks match with the J-pole and to one whatever material you have available and can work with. So ment time you see a broken CD antenna by the curb, don't pass up the re-CYCLE-able aluminum you can get from it?

92 Saxton St Lockport, WY 14094



C(inches)= 2952 I(RHZ)



LETTERS

Hartley,

I had never named a bite, until at age 60 1 started a bicycle exercise program to replace my walking. The daily commute was 8 miles by land plus a ferry ride, I hung a Henry S-15 on my belt with a speakermike to my collar and a 1/4 wave whip and covered 1000 miles a year, easily talking from Vancouver BC to Olympia VA via a mountaintop repeater east of Everett, VA. Totaled 5124 miles at retirement.

The wierdest antenne, but best, was a 1/4 wave floppy ground plane on my helmet. The "man from mare" comments retired it. But my, to them, unusual approach to commuting continued to draw comments and questions. In the long run I'm sure I inspired some of the regulars to commute by bike and thus "by pass" the long ferry lines; I especially enjoyed kids' comments and carefully explained my operation to them. In spite of PSV weather I would just get up and get going in the morning, in 5 years there were just a few soaking wet rides.

How that I'm retired the few ferry trips I take are by car — the ferry riders ask: "Where's the bike?". On the 148.92 repeater I'm still known as the "Whidbey Island Bioycle-mobile" and I still get many questions: "How do you do that?".

73

C.L. Mackie, W7IJY 6130 S. Srighton Bob. Rd. Clinton, WA 98236

Bditor,

fixed of your bicycle has afforts to WOFLDRADIO,

Jan. '91, p 12. FB, DM.

I ride a Stabili Safari, the touring bile of the years 74,75,75. Then they went out of production -too expensive to build. By inday's standards it's heavy \$ 32 lbs. fully-dressed factory stock. But I can also it down to 24 lbs. quickly by unacrewing feature, begs. lites, etc.

I'm set up to work very light __ union ATLAS TX /RI modules for SP, My YMF/UMF stuff ridge along when I'm in the city. That's been best. Had to do contary run S yrm ago just to been the 10-80 Atlas. In the spring of '80 I made 47 contacts on 10 PE using a Ch contacts on RELCO 10 PR. Very light -- catch one if you can.

Antends screen onto 5/6 consection using SPIDER on rear carrier. Bey. To pictures left, But I don't do this like every westend. Lately, not riding too such a smist line shows it.

SCHO, 73'4.

Dona Sarsberger, KAOSOE 5614 Minnesota St. Louis ND 63111 LEAVE TOUR CAR AT HOME

While there are some edvantages in taking a car on a vacation I want to discuss here the use of Amtrel on your principal carrier. I've taken Amtrel so many trips.

Materally you need some bind of transportation at the other end. A car can be rented but I have always taken my bake along. Manorian seem to be stronger of areas need from a bike then out of the window of a car. Bost of my vacation trips amount to going to a distant city and emploring it, using the bike to get around while there. Generally my vacations are broken up Into non-week segments. Inexpensive lodgings can be found, expecially using ATH Mostels.

Fannises are not only for camping equipment but can be used as your piaces of luggage. I usually ride the bibe to and from Union Station in Chicago, Arrival at the depot as hour about of departure assured time to arrange the bibe so it will fit in the how introb provides. At Chicago the bibe handling in done in the beasement in the beggage room. Tour panniars can stay with you is the common car of alsoper. I always use coach, having an difficulty sleeping in those roomy confortable seate.

The trip out and the trip back are just as enjoyable as the time out there when you use Autral. Viewing the terrain and things you pees from the large wisdows or dome car is nice. Unlike when you're driving you don't have to keep your eyes on the rose. Talking to fellow passengers often in a delight sepecially in the dising car. Tou don't have to pay through the ear for a dising car seal as in the old days. The manis are prepared in the hitches by competent chefs and served with real plates and allverware, not placeto. Tables are movered with white tablecloths.

I have visited finattle, fine Francisco, Lee ingelee, Boston, and Washington D.C. this way and laws done stanovers in Denver, Grand Junction, CD. and Law Vegas. I just got back from my second trip to Washington D.C. on Amirot. As automobile in D.C. is a real liability due to the density of traffic and lack of parking. Buch more can be even there by uning the bibs. It's much quicker then walking or driving, And there's always something solid to lock your bibs to.

Since I use the bike as often for getting around in the home area as a car I as secure with traffic. Seing computent in traffic, then comfortable with it, is an advantage that comes with regular use of the him for transportation. You learn to staily the him for transportation. You learn to staily the becomes automatic but you have it concentrate when you are in a new area. Sometimes prior research is a help is special cases, such as exiting sirports. I slways use a rear view mirror on my glasses -- I can't comprehend riding without one. Ho one drives a motor rebicle without using a rear view mirror. After becoming familiar with the nort I use it only takes 1/10 second to check traffic behind.

Asteab is still a well kept mecret. If meet people beew of its benefits you couldn't get a reservation. The slow pace relates you and clears your sind from everyday distractions. I love it! ALL ANDARD ANTHER.

Jarry Peterson, 198WE 202 Fairview Bt. Prospect, (L 60056 BOW I DID THE TRIPLE

For neveral years I had heard of the 24-Royr Dicycle Marathon put on by the Yest Pain Basch Recreation Dicycle Club. The idea was no craxy that it intrigued me. Just a 45-year-old hid, I had only started cycling eight years before, when I lived in Boulder, Colorado. On my first club ride Eartley Alley had showed me how to climb when I was struggling up a canyon road.

At 11 e.m. Seturday, January 27th, the Batus travel trailer entered the Fairgrounds gate, a bicycle being the required pass for entry of rider and trainer (wife Judy). The annual county fair was in progress but we headed straight for the infield of the half-sile oral track, which had been reserved for tweaty-four hours by the club. This esto roce track is parfect for cycling — basked at the turns and paved with faultiessly emoth blacktop.

Starting time was 2 p.m. Fiders were busy making the final adjustments in the tops of avoiding any mechanical problems during the mext to-hundred miles. One wife-trainer heightened the tension by announcing from her canvas fly-tent that her humbend would average 21 mph for 24 hours to beat the 507-mile world record for this sort of thing. The track record was 453 miles made two years earlier. Bob Musky of the host club handed we so observe. Instructions were to sount it on the blue and then make two trips around the track to check it out. And then of course to reset it to mare.

At 2 p.m. the gun mounded and 64 riders were off in a burst of energy. The light drixtle didn't despes the surge of bright colors. At first it meemed as if the turns at each end were basked for more speed than I had No problem. The real trick was, upon bearing a blowout, to figure out in the Initial mass, whether it was in front of off to the mide. For melf-preservation the rider with a blowout would raise an arm to avoid the usual pileup.

I had chosen to attack the 24-boar trip by etaying in the saddle for 5-boar mestions. At 5:15 with 50 miles completed, I came in for dry jersey, traisor-cucked stew and howey-filled energy hars (racips evailable).

The wet-gray evening torsed to an even wetter starkmens. Track-lit figures became recognizable. The macke-allere came from behind yelling, "Inside" or "On the inft!" Then B or 10 would fly by, sometimes splitting to this through on both sides. I got to know some of the slower ones. One young follow was there because he had reached the qualifying age of eight the day before. The slower-old-gal with red relamit stayed clear by riding along the upper edge of the track. At 10 p.m. I heard someone and her if the had made 100 miles yet. "Just finished 95, Daddy", was her asswer. The rode all night to finish 12th overall with 225 miles.

At 12:30 a.m. I headed for a warm, mmapy shower, then as hour's rest in a bunk sicely probested by trainer.

Detwee J and S a.e. there were only 13 effect cyclists electing through the contisuous setmes. At five, may electy cyclists energed to be greated by wied instead of rais. It wasn't easy to put a sore rusp outo a cold maddle, they roll immediately into se secondary poleton. Terry Osborne was now in the lead. On one early dawn circuit, Terry's order was, "Hot butter and homey." On the next pees his faithful pit women jossed along, are stretched, holding the secret potion is a migrafose cup. At the point of transfer half the liquid left the cup. Enough must have reached the fromma because he completed 460 miles, his fourth wis end a new record for the track.

The youngest rider, the 5-year-old, rode 196 miles. The most senior at 78 did 165. Second place for distance went to a 35-year-old with 369 miles. My goal was 300. When the odometer on my Peugeot said 305 5 I packed it in and took iwo weeks to recuperate!



LETTERS

Dear Hartley.

Just thought that this might be of taterant to

the big gun Slere!

On Jaconry 19, 1991, at 1440 GMT on 28,500 MHz. I had a bite mobile to bite mobile QSO -- between me. VAATOR, and VENGIE (Etroy). I was to Bollywood FL and Eiroy was in Milwaukee WI. We believe that this is the first MF to MF bicycle mobile QSO.

That was empiting enough, but on January 24 at 1350 GHT on 20 meters I worked GAPEP (England) from my bicycle INSIDE THE GARAGE VITE MY ANTENNA FOLDED IN MALP! Who says you need power? Who says you need a beam

up 65 feet?

Co January 25 with the same rig, I worked my good friend Evilio, TVSIE, in Teneguela. After my QSO with him, I tuned down the band and beard the Pamily Bour DE net. I asked for a relay to the net controller, who then listened for m. He gave me a 4x3 and I gave him a 5x5. His call was VEARE and him QTH was Queensland, Australia.

After looking at the picture of the rig and actuans conformation that I was using when I worked YEARZ, the only thing I could think to myself was: "Power, who needs it? Amazing just amazing!".

1 bike Huffy Duramport 2 radio Espapod TS 130S

gatenna Hustler mobile

E tuher Tentec

r power 12V mutarcycle bettery s ground insolated wire coiled

around the fram-

input 75 Watte

a petput schooms, but set much

Additional notes: The SVI is tuned to 1:1, but may be loading the tuner and not the antenna. I have been known to get RF burns from the mile and the head phones. Battery life when transmitting may be up to 2 hours. The deep cycle operation doesn't do too much for the battery.

Gincerely.

Elliot B. Eleiman, WASYDE/bicycle mobile 4701 McKinley St. Bollywood, FL 33021

BINA REVSLATTER

EDITOR: Martley Alley MACA

BOADD OF ADVISORS: Russell Dwarsbuln KMAU, Lap Koppl 1DOBC, Sike Bickolaum FFOR, Bob Pulbo; KMAZJ

We welcome articles, suggestions, assummensors, letters, photos, artwork -- asything pertaining to bicycling while operating as asstrucratio, or vice versa!

Submitted material will be edited for clarity, and, if mecessary, shortwood to fit mpace constraints.

Material about the submitted before Dec.1, Mar.1, June 1. or Sept.1 (or lociusion to the essuing lasse.

BREA NEVSLETTER is the quarterly publication of the Bicycle Mobile Hamm of America. Insued in Jan. Apr. July, and Oct.

TELEPHOSE: 303-494-6550

SICICLE MOBILE RAKE OF AMERICA (BERA) Pox 4009, Boulder, Colorado 80306

ABBUAL BUES: \$10



Ellict fleigen WASTON, above, with his eptense folded in half; Elroy Shelley VB9GIS, below, on the lakefront at Ellwooden.





ANTENNAS

t the '90 MamVention I had many requests for a "Row-To" on the 1/2 wave autenna

that worked so well on my 2,000 mile solo bike ride back to my high school's 50th reunion. Theory tells us that the best auteons in on unsuitable ground place situation is a 1/2 wave, And a bicycle is a lousy ground plane. Larsen claims a gain of 2.4 dB for this setup. believe it. Phone me 303 494 6550 if you have problems putting it together

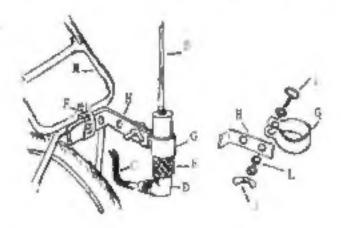
PARTS TERDED

A Largen 1/2 wave antenna, PRV-150	\$30,00
B 5/8 whip, for 2 meters	6.50
C 6' cable RG58, Radio Shack 278-975	5,30
D right angle adaptor, X359 278-199	2.50
E UGSS Male BEC connector 278-103	3,00
F bose clamp, stainless (to fit around	corner
brace and TOUR rear parrier)	. 60
G pipe clamp (loom clip) 1" vinyl-coate	d 1.20
H corner brace, 3"	
I thumb screw, 1/4"-20,	.50
J wing nut	.30
E 3 washers	- 08
L lock washer, split	02
K rear carrier	
TOTAL COST, PARTS	

ASSENBLY

- 1. Detach sircraft cable element from the base of the PHV-150. (Save it for backpacking trips)
- 2. Using a file, cut the 5/8 whip antenna down to 1/2 whip size. (Wine is exactly 40 1/2",)
- 3. Place the whip in position on the antenna base and attach firmly with the emisting set
- 4. Using a vice, bend the corner brace so that its angle is opened to about 135 degrees, rather than its original 90 degrees. (This allows the antenna to pivot forward and clear of the carrier, when bicycle is stored. See drawing at top of page.)
- 5. Using the hose clasp, attach the corner brace to the rear carrier, as shown in the drawing. If necessary, and to improve the stability, place a piece of inner tube between the two parts. Make this a snug, stable fit
- 6. Place the antenna base in the pipe class. To insure a saug fit wrap a piece of inner tube around the base
- 7. Assemble the parts as shown in the drawing.

- 8. Screw the right angle adaptor into the antenna base.
- 9. Attach the coax cable as shown and cut off the connector that's on the other end-
- 10. Using standard soldering technique, attach the male BNC connector to the end of the coas.
- 11. Connect up your BT and go on the air!



COMMENTS

When I'm bicycle-mobile I wear the HT on my leather belt too my right hip) and I strach a speaker-mike to a "collar" that I wear around my neck. The collar to made of 1/2" webbing, about 25" long. You can sew the ends together or use veloro. Mooked to this collar the speaker mike rests just formerd of my shoulder --- close to my ear for bearing and close to my month for speaking. The wike takes only one band to operate. And if an whatgency requires that you put both bands on the bandlebars, the mike won't fall when you let go of it.

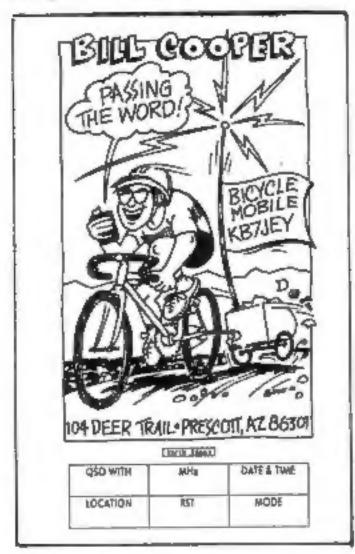
At first you might find that the 6 foot coar cable is too long, but that extra length comes in handy when you stop and get off the bike when you're on the air. I take care of the slack by judicious use of a bungee or by stuffing the excess in a sippered pocket of a pappier hag.

To make the ontenna more visible--- and to thus serve as a cafety flag--cover the whip with pleatic tubing or shrink tubing. For high visibility use white or mafety-color tubing. I top off my whip with a couple of 12" pieces of vellow or orange surveyors tape, tied to the top of the whip with fishing line.

> ---- Hartley Alley, MAGA Box 4009 Boulder, CD 80306

QSL CORNER

In this space we feature QSL cards that have a bicycle-mobile photo or motificated yours in. We'll run it.



NEWBERSHIP APPLICATION

quarterly BAHA NewsLetter.

DICUCTO WINTER HAVE OF AMEDICA (DWDAS

We received this card from Bill Cooper, KB7JEY, of Prescutt, AZ. He writes:

Dear Hartley,

I was reading Steven Roberts (M4RVE)
CAA on Genie today to check up on his
progress and he said you headed up a bloycle
has club. If I could contribute by being a
member I would be happy to join up. It would
be interesting to share systems info to use
as a cycling ham.

Lest spring I toured from Prescott,
Arizona to Jackson, Mississippi — about
1500 miles. I carried a 2% 100% HT and a 10%
Radio Shack transceiver. The 10% was powered
by a 10% battery that was charged with a
colar cell carried on the rear rack. The
antenna used mostly was a tuned coar
slingabotted into the nearest tree. Several
interesting contacts were made in the first
part of the trip. The band started closing
down during the second balf.

i am planning a trip this spring from here in Arizona to Pennsylvania and had considered using a packet rig with my 2M EI. Not having had any experience with packet it would be great to hear from someone who has used packet on an extended bike trip. Thanks, Regards,

Bill Cooper, KB7JEY 104 Deer Trail Prescott, Arizona 86301

(Yes, anybody with packet experience from a bike should write to Bill, but also send the info to the BMHA Fewaletter, so that we can share it with all our readers. ... Editor)

(check one) new member renewel

BNHA PO Box 4009			
Boulder, CD 80306			Date
Name	Call	License	Class
Address			
City, State		Zip	

(Make checks payable to BAHA, Bicycle Mobile Hams of America)

Suclased is my check for \$

CORRECTIONS

The chart that accompanied the excellent article on HEADSHTS & THE LAV (Jan 91 icsue) by Barney Scholl KSLA had a few omissions. With his apologies, Barney sends us the corrected chart, which appears below.

Harbi	L Stadeball	2 America	
A LA LA	r secolumns	1 men	banes Section
All about	598	798	
Aleege	89	24	
Arlione	709	(Price)	
Arkumaa	M-0-6	The same of	
California	yes	200	37400
Colorado	34		27400 EM 41-4-117
Connections	yes.	THA	
Delaware	Yes	-	23 Del C exects
B MC C	, yes	Last	
Elveride	24	-	Phonysk stat 214, 15-
Georgia	Sec	80	9056_49-5-324
Nove Li	Peri	796	
fut when	2700	798	
[iiipain	946	80	13th and 32-810 (a)
Indiana	799	778	
2 mal is	700	PRE	
Eshand	770	YEAR	
(Cart Crucky)	900	200	
Louisians	y ess	PROB	
May 2 may	Year	700	
Marry 1 and	y est		31-1210(a)
ABBRECHUNGSED.	766	744	
Pichigan	Yard	yes	
ELocesata	in a	30	149-471(2)
Mississippi	yest	Len	
Missouri.	(Family)	Last	
Rontana	T-mail	799	
Percenta	(Form)	THE	
Meyede	yes	THE	
Hew Hempshire	THE	TWE	
May Jacasy	700	744	
New Manager	711	THE	
Here Ppch	998	THE.	
worth Carolina	900	frame.	
markly Bakets	5000	784	
Elb lo	yes	nac.	ORC 451804
Da Lahpaa	Yes	744	
Crapps	The same	744	
Esinesylvenia	3.0	10	72 Pa.C.B. 2314
Photo Bland	page .	Pri-	HI Gen Laws 1217-51
Bowth Carolina	940	y shal	
South Dakote	Na.	P mm	
Tennesses	Part.	yes	
Tenn	Yes	Name of	
DEM P	204	ree.	
Antamies?	744	Page.	
Tirginia	Plot .	360	Te Code 483-1016
Mark Lings on	90	34	BCK 991.033
Most Wirginia	yes	yes	
D F BUILDING 9 AN	yes	Pars.	
Wynning	yes	901	

BNHA MEVSLETTER Bloycla Mobile Hams of America PO Box 4009 Boulder, CO 80306

Address Correction Requested

First Class Kail

UPCOMING IN BMHA

1991 DAYTON HANVENTION, April 26-28
Our BNHA Forum is set for Sunday the
28th, 9:30 am to 11:15. We'll be in room 2,
which seats four times as many as last
year's room.

Maybe you saw in the April issues of QST and Vorldradio the short articles about the RMHA Forum. With the help of this publicity we should fill the room.

In the absence of Eartley Alley, MACA (see page 1) the Forum will be co-chaired by Kike Nickolaus, NFON, and Bob Pulbuj, KEGZJ. Mike, our net control, will report on the BNHA 20 meter net; Bob will talk about Home-Brewing and show us the recumbent bike that he made from scratch. A large block of time has been set aside for comments and suggestions from the floor.

Right after the Forum we'll has as a group to a local restaurant for lunch, an eyeball, and of course some elbow bending.

CONTACT

This is a new department in the BARA Beweletter, the object being to establish a clearing house where our readers can exchange information. Send your request in - - we'll run it.

"I'd like to contact any bikie-ham who has worked packet while on the road."
Bill Cooper, XB7JEY
104 Deer Trail
Prescott, #2 86301